

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Please CANCEL claims 9 and 10, AMEND claims 1, 6, 7, 8, 11, 12, 13, 14, 15, and 16, and ADD new claims 17 and 18 in accordance with the following:

1. (Currently amended) A method of broadcasting programs, executed by a broadcasting unit in a broadcasting system, said broadcasting system also including at least one receiving unit of a listener, the method comprising the steps of:

reading program information from a program-information database provided in said broadcasting unit and image-analyzing the thus read-out program information;

extracting an object that has been displayed onto the display screen of a program from the program information about programs appearing in a program which is to be broadcast so as to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

generating the relevant information about the extracted object, which is carried out principally with reference to said object extraction table;

generating sync information to be used for synchronizing the program information with the relevant information; and

transmitting the program information, relevant information, and sync information to said receiving unit.

2. (Original) The method according to claim 1, wherein the sync information includes the information about the time at which the object is displayed or the frames that contain the object, and the information about the display position at which the object is displayed.

3. (Original) The method according to claim 1, wherein the relevant information is the advertisement information about advertisement of the object.

4. (Original) The method according to claim 1, wherein the relevant information is the auction information about auction of the object, and the method further comprising the steps of: receiving purchase values of the object to be auctioned from said receiving unit; and transmitting the highest value among the received purchase values.

5. (Original) The method according to claim 4, further comprising the steps of:
deciding the listener transmitting the highest price as a successful bidder of the object
when broadcasting of the program information is completed; and
transmitting information about the successful bidder to the receiving unit.

6. (Currently amended) A method of broadcasting programs, executed by a broadcasting unit in a broadcasting system, said broadcasting system also including at least one receiving unit of a listener, the method comprising the steps of:

reading program information from a program-information database provided in said broadcasting unit and image-analyzing the thus read-out program information;

extracting an object displayed onto the display screen of a program from the program information about programs appearing in a program which is to be broadcast to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

generating the relevant information about the extracted object, which is carried out principally with reference to said object extraction table;

generating the sponsor-recruiting information for recruiting a sponsor who pays for the cost of displaying the extracted object; and

transmitting the program information and the sponsor-recruiting information to said receiving unit.

7. (Currently amended) A method of receiving programs, broadcast by a broadcasting unit, by a receiving unit of a listener, the method comprising the steps of:

receiving the program information about a program to be broadcasted from the broadcast unit, relevant information about an object displayed onto the display screen of the program which is generated in the broadcasting unit including the advertisement information about advertisement of the object, and sync information for synchronizing the program information with the relevant information from said broadcasting unit, said sync information including the information about the time at which the object is displayed or the frames that contain the object, and the information about the display position at which the object is displayed; and

storing the received program information, relevant information, and sync information; and
synchronously outputting the program information and relevant information in accordance with the stored sync information.

8. (Currently amended) A method of receiving programs, broadcast by a broadcasting unit, by a receiving unit of a listener, the method comprising the steps of:

receiving the program information about a program to be broadcasted from the broadcasting unit and sponsor-recruiting information for recruiting a sponsor who pays for the cost of displaying an object displayed onto the display screen of the program;

storing the program information and sponsor-recruiting information;

outputting the stored program information and sponsor-recruiting information; and

transmitting sponsor-designating information to the broadcasting unit for designating that the ~~sponsor-owner of the receiving unit~~ becomes a the sponsor who pays for the cost of displaying the object to said broadcasting unit.

9 and 10. (Cancelled)

11. (Currently amended) A computer-readable recording medium which stores a computer program that contains instructions which when executed realizes a method of broadcasting programs on a broadcasting unit in a broadcasting system, said broadcasting system also including at least one receiving unit of a listener, the computer program making said broadcasting unit realize the steps of:

reading program information from a program-information database provided in said broadcasting unit and image-analyzing the thus read-out program information;

~~extracting an object that has been displayed onto the display screen of a program from the program information about programs~~ appearing in a program which is to be broadcast to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

generating the relevant information about the extracted object, which is carried out principally with reference to said object extraction table;

generating sync information to be used for synchronizing the program information with the relevant information; and

transmitting the program information, relevant information, and sync information to said receiving unit.

12. (Currently amended) A computer-readable recording medium which stores a computer program that contains instructions which when executed realizes a method of broadcasting programs on a broadcasting unit in a broadcasting system, said broadcasting

system also including at least one receiving unit of a listener, the computer program making said broadcasting unit realize the steps of:

reading program information from a program-information database provided in said broadcasting unit and image-analyzing the thus read-out program information;

extracting an object that has been displayed onto the display screen of a program from the program information about programs appearing in a program which is to be broadcast so as to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

generating the relevant information about the extracted object, which is carried out principally with reference to said object extraction table;

generating sync-the sponsor-recruiting information to be used for synchronizing the program information with recruiting a sponsor who pays for the relevant information cost of displaying the extracted object; and

transmitting the program information, relevant information, and sync-the sponsor-recruiting information to said receiving unit.

13. (Currently amended) A broadcasting unit that broadcasts a program to at least one receiving unit of a listener, said broadcasting unit comprising:

an object extraction unit which extracts an object displayed onto a display screen of a program to be broadcasted from the program information about programs appearing in a program which is to be broadcast so as to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

a relevant-information generation unit which generates the relevant information about the object extracted by said object extraction unit, which is carried out principally with reference to said object extraction table;

a sync-information generation unit which generates the sync information for synchronizing the program information with the relevant information; and

a transmission unit which transmits the program information, relevant information, and sync information to the receiving unit.

14. (Currently amended) A broadcasting unit that broadcasts a program to at least one receiving unit of a listener, said broadcasting unit comprising:

an object extraction unit which extracts an object displayed onto the display screen of a program to be broadcasted from the program information about programs appearing in a

program which is to be broadcast so as to generate an object extraction table in accordance with the information of the time or frame and display position of the object on a screen;

a sponsor-recruiting-information generation unit which generates the sponsor-recruiting information for recruiting a sponsor who pays for the cost of displaying the object extracted by said object extraction unit;

a transmission unit which transmits the program information and sponsor-recruiting information to the receiving unit; and

a sponsor-designating-information receiver which receives the sponsor-designating information for designating that the ~~sponsor-owner of the receiving unit~~ becomes a-the sponsor who pays for the cost of displaying the object ~~from-to~~ said receiving unit.

15. (Currently amended) A receiving unit of a listener that receives programs, broadcast by a broadcasting unit, said receiving unit comprising:

an information receiving unit which receives the ~~sync-program~~ information for synchronizing the program information about a program to be broadcasted from the broadcasting unit, relevant information about an object displayed onto the display screen of the program which is generated in the broadcasting unit including the advertisement information about advertisement of the object, and sync information for synchronizing the program information with the relevant information from said broadcasting unit, said sync information including the information about the time at which the object is displayed or the frames that contain the object, and the information about the display position at which the object is displayed;

a storage unit which stores the program information, relevant information, and sync information received by said information receiving unit; and

an output unit which synchronously outputs the program information and relevant information in accordance with the sync information stored by said storage unit.

16. (Currently amended) A receiving unit of a listener that receives programs, broadcast by a broadcasting unit, said receiving unit comprising:

a storage unit which receives the program information about a program to be broadcasted and the sponsor-recruiting information for recruiting a sponsor who pays for the cost of displaying an object displayed onto the display screen of the program from said broadcasting unit and stores the received information;

an output unit which outputs the program information and sponsor-recruiting information

stored by said storage unit; and

a sponsor-designating-information transmission unit which transmits the sponsor-designating information for designating that the sponsor-owner of the receiving unit becomes a sponsor for paying the cost of displaying the object to said broadcasting unit.

17. (New) A method of broadcasting programs on a broadcasting unit in a broadcasting system embodied in a computer-readable program, comprising:

extracting an object that has been displayed onto a display screen from program information about programs;

generating relevant information about the extracted object;

generating sync information to be used for synchronizing the program information with the relevant information; and

transmitting the program information, relevant information, and sync information to a receiving unit.

18. (New) A method of broadcasting programs on a broadcasting unit in a broadcasting system embodied in a computer-readable program, comprising:

extracting an object that has been displayed onto a display screen of a program from program information about programs;

generating sponsor-recruiting information for recruiting a sponsor for the extracted object; and

transmitting the program information and sponsor-recruiting information to said receiving unit.